

Range-Slider

Range Slider The Range Slider component provides a simple and elegant way to select a numeric value or range within a defined interval. It features smooth drag interactions, built-in accessibility, and easy integration with Angular forms for both template-driven and reactive use cases. The `<aava-slider>` component supports multiple modes such as single value, multi-range, and input-integrated sliders, making it adaptable to diverse UI needs.

How to use ■ `import { AavaSliderComponent } from "@aava/play-core";`

Basic Usage ■ **Angular Preview Code** `<aava-slider [value] = " 50 " [min] = " 0 " [max] = " 100 " [step] = " 1 " (valueChange) = " onSliderChange($event) " > </aava-slider> onSliderChange (value : number) { console . log ('Single slider value:' , value) ; }`

The simplest version of the slider displays a single draggable handle to choose a numeric value between a default range of 0–100.

Ideal for scenarios like volume control, brightness adjustment, or progress selection.

Size Variants ■ **Angular Preview Code** `<aava-slider size = " sm " [value] = " 30 " [min] = " 0 " [max] = " 100 " > </aava-slider> <aava-slider size = " md " [value] = " 70 " [min] = " 0 " [max] = " 100 " > </aava-slider>`

The slider supports multiple size options to fit different design requirements and layouts.

Smaller sliders suit compact UIs, while medium sizes provide comfortable interaction for most use cases.

Available Size ■ **sm (Small)** : Compact slider ideal for dense layouts and mobile interfaces **md (Medium)** : Standard size slider for most common use cases (default)

States ■ **Angular Preview Code** `<aava-slider [value] = " 50 " [min] = " 0 " [max] = " 100 " > </aava-slider> <h1> Normal State </h1> <aava-slider [value] = " 50 " [min] = " 0 " [max] = " 100 " [disabled] = " true " > </aava-slider> <h1> Disabled State </h1> <aava-slider type = " input " [value] = " 75 " [min] = " 0 " [max] = " 100 " > </aava-slider> <h1> Input Variant </h1> <aava-slider [value] = " 50 " [min] = " 0 " [max] = " 100 " [showTooltip] = " false " > </aava-slider> <h1> Without Tooltip </h1>`

Demonstrates the slider's different states, including disabled, active, and focused.

These states help communicate interactivity and status changes to users clearly.

Multi Range Slider ■ **Angular Preview Code** `<aava-slider [multiRange] = " true " [min] = " 0 " [max] = " 100 " [minValue] = " minValue " [maxValue] = " maxValue " (minValueChange) = " onMinChange($event) " (maxValueChange) = " onMaxChange($event) " > </aava-slider> minValue = 20 ; maxValue = 80 ; onMinChange (value : number) { this . minValue = value ; console . log ('Min value changed:' , value) ; } onMaxChange (value : number) { this . maxValue = value ; console . log ('Max value changed:' , value) ; }`

The multi-range version allows selection of both minimum and maximum values, offering a more flexible range selection experience.

It's ideal for use in filters, price sliders, or any range-based data input scenarios.

Multi Range Features ■ **Dual Handles** : Independent control of minimum and maximum values **Range Selection** : Visual indication of selected range between handles **Collision Prevention** : Handles cannot cross over each other **Synchronized Tooltips** : Both handles show their respective values **Input Type Variant** ■ **Angular Preview Code** `<aava-slider type = " default " [value] = " 50 " [min] = " 0 " [max] = " 100 " [showTooltip] = " true " > </aava-slider> <h1> Default Type </h1> <aava-slider type = " input " [value] = " 75 " [min] = " 0 " [max] = " 100 " > </aava-slider> <h1> Input Type </h1> currentValue = 50 ; onSliderChange (value : number) { this . currentValue = value ; console . log ('Slider value:' , value) ; }`

This variant combines a slider handle with a numeric input field, enabling precise manual entry alongside drag interaction.

It's especially useful in cases where exact numeric control is needed, such as filtering or budget ranges.

Input Type Features ■ **Dual Input Methods** : Users can drag the slider or type directly in the input field **Real-time Sync** : Input field and slider stay synchronized **Validation** : Input respects min/max boundaries and step values **Accessibility** : Input field provides keyboard navigation alternative **Responsive Design** : Input field adapts to slider size variants

Icon Slider Variants ■ **Angular Preview Code** Customizable slider with icon-based thumbs for enhanced visual feedback and thematic consistency.

Icon Thumb Features ■ **Custom Icons** : Replace default handle with Lucide icons **Thematic Consistency** : Icons that match your content context **Multiple Variants** : Various icon styles for different use cases **Responsive Sizing** : Icons scale appropriately with slider

size Color Theming : Icons inherit slider theme colors Hover Effects : Enhanced visual feedback on interaction

Icon Thumb Variants ■ Volume Control : Speaker/volume icons for audio controls Brightness : Sun/brightness icons for display settings Temperature : Thermometer icons for climate controls Speed : Gauge/speedometer icons for rate adjustments Rating : Star icons for rating and review systems Progress : Arrow or progress icons for completion tracking Orientation ■ Angular Preview Code Accessibility ■ Built-in accessibility features ensuring WCAG compliance and inclusive user experience. Accessibility Features ■ Keyboard Navigation : Arrow keys, Home, and End key support ARIA Attributes : Proper role="slider" , aria-valuemin , aria-valuemax , aria-valuenow Focus Management : Clear focus indicators and outline Touch Support : Optimized for touch devices Input Integration : Numeric input field provides alternative input method Keyboard Controls ■ Arrow Right/Up : Increase value by step amount Arrow Left/Down : Decrease value by step amount Home : Jump to minimum value End : Jump to maximum value API Reference ■ Inputs ■ Property Type Default Description

Property	Type	Default	Description
min	number	0	Minimum value of the slider range
max	number	100	Maximum value of the slider range
value	number	0	Current value of the slider
step	number	1	Step increment for value changes
showTooltip	boolean	true	Whether to display the value tooltip
size	'sm' 'md'	'md'	Size variant of the slider
type	'default' 'input'	'default'	Display type with or without input field
multiRange	boolean	false	Enable multi-range (two-handle) slider
minValue	number	20	Minimum selected value in multi-range mode
maxValue	number	80	Maximum selected value in multi-range mode
iconStart	string	"	Icon displayed at the start of the slider track
iconEnd	string	"	Icon displayed at the end of the slider track
handleIcon	string	"	Icon displayed on the slider handle
handleIconStart	string	"	Icon displayed on the start handle (multi-range)
handleIconEnd	string	"	Icon displayed on the end handle (multi-range)
customStyles	Record<string, string>	{}	CSS custom properties override
disabled	boolean	false	Disable the slider

Outputs ■ Event Type Description

Event	Type	Description
valueChange	EventEmitter<number>	Emitted when the main slider value changes
minValueChange	EventEmitter<number>	Emitted when the minimum value changes
maxValueChange	EventEmitter<number>	Emitted when the maximum value changes

Methods ■ The component implements ControlValueAccessor for form integration: Method Parameters Description

Method	Parameters	Description
writeValue	value: number	Set value programmatically
registerOnChange	fn: Function	Register change callback
registerOnTouched	fn: Function	Register touched callback

CSS Custom Properties ■ The slider supports a wide range of CSS custom properties for theming and customization: Property Description

Property	Description
--slider-container-height	Height of the overall slider container
--slider-container-gap	Spacing between slider elements
--slider-input-gap	Gap between the slider track and input field
--slider-size-sm-track-height	Track height for small slider size variant
--slider-size-sm-thumb-size	Thumb size for small slider
--slider-label-font-size-sm	Label font size for small slider
--slider-label-weight-sm	Label font weight for small slider
--slider-size-md-track-height	Track height for medium slider size variant
--slider-size-md-thumb-size	Thumb size for medium slider
--slider-label-font-size-md	Label font size for medium slider
--slider-label-weight-md	Label font weight for medium slider
--slider-track-height	Height of the slider track
--slider-track-background	Background color of the slider track
--slider-track-border-radius	Border radius of the track
--slider-progress-background	Background color of the filled progress area
--slider-progress-border-radius	Border radius of the progress area
--slider-thumb-size	Size of the slider thumb
--slider-thumb-border-radius	Border radius of the thumb
--slider-thumb-inner-background	Background color inside the thumb
--slider-thumb-shadow	Shadow of the thumb
--slider-thumb-shadow-hover	Thumb shadow on hover
--slider-focus-ring	Style of the focus ring
--slider-focus-ring-offset	Offset distance of the focus ring
--slider-cursor	Cursor style when hovering over slider
--slider-tooltip-margin	Margin around the tooltip
--slider-tooltip-padding	Padding inside the tooltip
--slider-tooltip-border-radius	Border radius of the tooltip
--slider-value-color	Text color of the tooltip value
--slider-label-font-family	Font family used for labels
--slider-label-line-height	Line height for labels
--slider-mark-background	Background color of slider marks
--slider-handle-icon-width	Width of the handle icon
--slider-handle-icon-height	Height of the handle icon
--slider-input-width	Width of the input field
--slider-input-height	Height of the input field
--slider-input-padding	Padding inside the input field
--slider-input-border-radius	Border radius of the input field
--slider-input-border	Border style of the input field
--slider-input-background	Background color of the input field

--slider-input-font-size Font size of the input text --slider-input-font-weight Font weight of the input text
 --slider-input-font-family Font family of the input text --slider-input-color Text color of the input
 --slider-input-transition Transition style for input state changes --slider-input-focus-border-color Border color of input when focused --slider-input-hover-border-color Border color of input when hovered
 --slider-input-disabled-background Background color of disabled input --slider-input-disabled-border-color Border color of disabled input --slider-value-color-disabled Text color for disabled value display
 --slider-disabled-color Color used in disabled state --slider-disabled-rail-background Background of the slider rail when disabled

Best Practices ■ **Implementation Guidelines** ■ Use appropriate step values for your use case (1 for integers, 0.1 for decimals) Set meaningful min/max boundaries that make sense for your data Consider hiding the tooltip for inline sliders in dense layouts Always provide proper labels for accessibility Choose appropriate size variants based on your layout density Use input type for scenarios requiring precise numeric input

Size Selection Guidelines ■ **Small** : Use in compact layouts, mobile interfaces, or when space is limited **Medium** : Default choice for most applications and standard layouts

Input Type Usage ■ **Default Type** : Best for visual-only interactions and quick value selection **Input Type** : Ideal for applications requiring precise numeric input or accessibility compliance

Form Integration ■ Use reactive forms for complex validation scenarios Implement proper error handling and validation messages Consider debouncing frequent value changes for performance Leverage input type for better form accessibility and user experience

```

<aava-slider
  [value]="50"
  [min]="0"
  [max]="100"
  [step]="1"
  (valueChange)="onSliderChange($event)"
>
</aava-slider>

```

```

  onSliderChange(value: number) {
    console.log('Single slider value:', value);
  }

<aava-slider size="sm" [value]="30" [min]="0" [max]="100"> </aava-slider>
<aava-slider size="md" [value]="70" [min]="0" [max]="100"> </aava-slider>

<aava-slider [value]="50" [min]="0" [max]="100"> </aava-slider>
<h1>Normal State</h1>

<aava-slider [value]="50" [min]="0" [max]="100" [disabled]="true">
</aava-slider>
<h1>Disabled State</h1>

<aava-slider type="input" [value]="75" [min]="0" [max]="100"> </aava-slider>
<h1>Input Variant</h1>

<aava-slider [value]="50" [min]="0" [max]="100" [showTooltip]="false">
</aava-slider>
<h1>Without Tooltip</h1>

```

```

<aava-slider
  [multiRange]="true"
  [min]="0"
  [max]="100"
  [minValue]="minValue"
  [maxValue]="maxValue"
  (minValueChange)="onMinChange($event)"
  (maxValueChange)="onMaxChange($event)"
>
</aava-slider>

```

```

minValue = 20;
maxValue = 80;

onMinChange(value: number) {
  this.minValue = value;
  console.log('Min value changed:', value);
}

onMaxChange(value: number) {
  this.maxValue = value;
  console.log('Max value changed:', value);
}

<aava-slider
  type="default"
  [value]="50"
  [min]="0"
  [max]="100"
  [showTooltip]="true"
>
</aava-slider>
<h1>Default Type</h1>

<aava-slider type="input" [value]="75" [min]="0" [max]="100"> </aava-slider>
<h1>Input Type</h1>

```

```

currentValue = 50;

onSliderChange(value: number) {
  this.currentValue = value;
  console.log('Slider value:', value);
}

```

■ No code found

■ No code found